

**INK-JETTABLE REACTIVE POLYMER SYSTEMS FOR FREE-FORM
FABRICATION OF SOLID THREE-DIMENSIONAL OBJECTS**

5

ABSTRACT OF THE DISCLOSURE

The present invention is drawn toward systems and methods for free-
10 form fabrication of solid three-dimensional objects. In one embodiment, a
method can comprise a) ink-jetting a first ink-jetable composition containing a
reactive build material and a second ink-jetable composition containing a curing
agent separately onto a substrate such that contact between the reactive build
material and the curing agent occurs, thereby resulting in a reaction that forms a
15 solidifying composition, and b) repeating the ink-jetting step such that multiple
layers of solidifying composition are accrued, wherein said multiple layers are
successively bound to one another to form the solid three-dimensional object.